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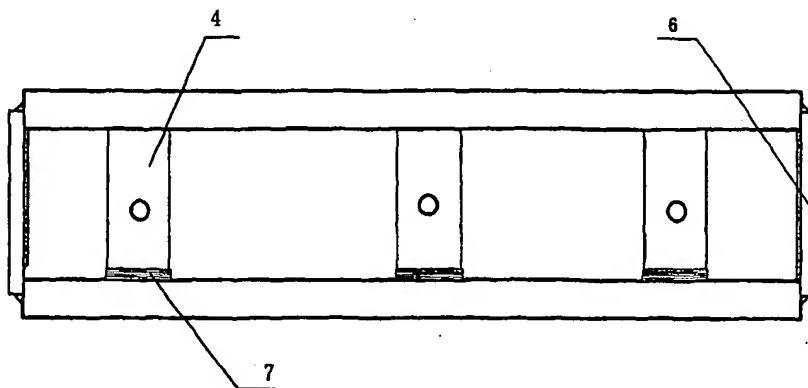
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- (71) Applicant (for all designated States except US): BOE TECHNOLOGY GROUP CO.,LTD [CN/CN]; No.10 Jiuxianqiao Road, Chaoyang District, Beijing 100016 (CN).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WU, Jusheng [CN/CN]; No.10 Jiuxianqiao Road, Chaoyang District, Beijing 100016 (CN). LI, Hongyan [CN/CN]; No.10 Jiuxianqiao Road, Chaoyang District, Beijing 100016 (CN).
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(54) Title: EVACUATED GLASS PANEL AND METHOD OF FIXING SUPPORT MEANS, DISPOSED THEREIN



(57) Abstract: The present invention discloses an evacuated glass panel and a method of fixing support means, disposed therein. A method of fixing support means (4, 4a, 4b) disposed within an evacuated glass panel, said evacuated glass panel includes a top planar glass sheet (1, 1a, 1b), a bottom planar glass sheet (2, 2a, 2b), support means (4, 4a, 4b) and seal component (6, 6a, 6b) around the periphery of planar glass sheet, wherein said support means (4, 4a, 4b) is disposed between the top and bottom planar glass sheet; said support means (4, 4a, 4b) are adhered to the surface of bottom planar glass sheet (2, 2a, 2b) through residual solution layer (7, 7a, 7b); the cavity between top and bottom planar glass sheet is vacuum, said fixing method including following steps: at first apply a solution layer (7, 7a, 7b) on surface of planar glass sheet, on which the support means (4, 4a, 4b) is disposed; secondly, place the support means (4, 4a, 4b) on said solution layer (7, 7a, 7b); at last cover the upper surface of support means (4, 4a, 4b) with a planar glass sheet, and heat said solution layer (7, 7a, 7b) to dry, so as to fix said support means (4, 4a, 4b) between planar glass sheets.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷ E06B, C03B, C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Chinese Patent Documents (1985~)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ, CNPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN,A,1206389 ((NIPG) NIPPON SHEET GLASS CO LTD) 27.Jan.1999 (27.01.1999) The whole description; claim 1~10; figure 1~4	1~18
A	CN,A,1246450((QINH-N) QINHUANGDAO DESIGN INST GLASS IND STATE) 08.Mar.2000 (08.03.2000) The whole description; claim 1~6; figure 1~4	1~18

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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8 Jul, 2003Date of mailing of the international search report
20 AUG 2003 08.03Name and mailing address of the ISA/CN
Xitucheng Rd., Jimen Bridge, Haidian District,
100088 Beijing, China
Facsimile No. 86-10-62019451Authorized officer
Zhang Yamei
Telephone No. 86-10-62093490

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN,A,1266470 ((NIPG) NIPPON SHEET GLASS CO LTD) 13.Sept.2000 (13.09.2000) The whole description; claim 1~4; figure 1~7	1~18
A	CN,A,1128320 (Jinguangheng) 07.Aug.1996 (07.08.1996) The whole description; claim 1~17; figure 1~9	1~18
A	US,A,5657607 (University of Sydney) 19.Aug.1997 (19.08.1997) The whole description; claim 1~27; figure 1~13	1~18
A	US,A,3990201 ((FALB-I) FALBEL G) 09.Nov.1976 (09.11.1976) The whole description; claim 1; figure 1~4	1~18
A	DE,A,3615179 ((VIER-I) VIERT K P) 19.Feb.1987 (19.02.1987) The whole description; claim 1~5	1~18
A	WO,A,9957406 ((NIPG) NIPPON SHEET GLASS CO LTD) 11.Nov.1999 (11.11.1999) The whole description; claim 1~18; figure 1~61	1~18
A	CN,A,1094475 (Wangminzhi) 02.Nov.1994 (02.11.1994) The whole description; claim 1; figure 1~2	1~18

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